**Jigsaw Topics and Instructions**

**Jigsaw Instructions:**

Each group is to prepare a presentation that is a minimum of 10 minutes in length. In this presentation you are the expert in your particular field. Your goal is to provide your audience with adequate information about your topic to the extent that your audience will then be able to take this information and use it to enhance their final projects.

**Presentation Requirements:**

1. All members of the group will be expected to an active participant in the presentation.
2. Each group will be expected to create a 1 page summary of their presentation. It should include all relevant information and graphics
3. Each group will create 3 – 5 questions to access their audiences’ knowledge of their topic. The answers to the questions should be included in the one page summary.
4. All videos and text used in the presentation should be the students own work.
5. Extra marks will be awarded to groups who effectively use a presentation method other than PowerPoint.

**Jigsaw Topics:**

1. Bioaccumulation vs. Bioamplification

* Toxicity movement in a food chain
* Case examples of each

1. Energy pyramids and Food Webs

* The rule of 10% and the relation to trophic levels
* Organism classification based on feeding style. (ex. Producer/autotroph ...)

1. Carbon cycle

* Role of producers and Consumers
* Photosynthesis

1. Nitrogen cycle

* Nitrogen Fixation
* Denitrification

1. Water cycle

* Four stages
* Purification

1. Adaptations

* Physical vs Behaviour
* Innate vs Taught

1. Pesticides and fertilizers

* The three major components of fertilizers
* Pesticide classification

**Remember: All topics must be related / linked to the end goal, the creation of a sustainable habitat for a duck population.**